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## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (Previously Presented) An implantable fluid management system comprising:  
a first tube member having a first end, a second end, and a length which defines a lumen therethrough, the first tube member carrying a fluid from a first body cavity to a second body cavity;  
a pump fluidly coupled to the first tube member, wherein the pump can be actuated;  
and an integrated controller for controlling actuation of the pump,  
wherein the pump is disposed in a housing made of a biocompatible material and having an anti-infective coating.
2. (Original) The system of claim 1, wherein the integrated controller is located in the pump.
3. (Previously Presented) The system of claim 1, wherein the pump is programmed to be actuated when pressure in the first body cavity exceeds a predetermined level.
4. (Previously Presented) The system of claim 1, wherein the pump is programmed to be actuated when pressure in the second body cavity exceeds a predetermined threshold.
5. (Currently Amended) The system of claim 1, wherein the pump is programmed to be actuated when chemical composition in the first body cavity exceeds a predetermined threshold, and wherein the chemical composition is detected by an implanted sensor.
6. (Currently Amended) The system of claim 1, wherein the pump is programmed to be actuated when chemical composition in the second body cavity exceeds a predetermined